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**MEMORANDUM FOR :** Assistant Director for Special Activities

**SUBJECT :** System XVII Study

**REFERENCE :** AD/OEL Memo to DD/S&T, Subject: Airborne Electronic Collection Program Against the

25X1D4A [redacted] dated  
16 September 1963 [redacted] -24025-63)

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1. This memorandum transmits a recommendation for approval. Such recommendation is contained in paragraph six.

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2. The referenced memorandum described the requirement for ELINT collection against the [redacted] and proposed an initial course of action in fulfillment of this requirement. In the interim period, additional studies and analysis have been conducted to verify the feasibility of collecting the desired signals from several selected [redacted]. In addition, [redacted] has been briefed on the proposed System XVII and is in agreement with initiating the program with a system analysis and preliminary system design phase.

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3. The proposed method of securing a suitable intercept system for the above purpose is to repackage and re-engineer the existing System X which is installed in an [redacted] and which is too large and heavy for use in a [redacted]. The system in its present form weighs about 1400 pounds. Adequate weight reduction without serious degradation of system performance is possible through re-design of the system. The Office of ELINT proposes that a contract be negotiated with [redacted] for initiation of the system design studies. In addition, arrangements should be made with [redacted] to conduct such tests as deemed necessary to determine the suitability of the proposed antenna system.

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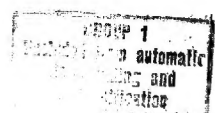
4. Attached hereto is a copy of the cost estimate from [redacted] for a preliminary study and design phase for the proposed system, including

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Control System

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an operational analysis, antenna design, mechanical repackaging, and microwave receiver design. The total cost for this study is [REDACTED]. Antenna tests required in connection with the system XVII intercept package will be performed by [REDACTED]. The Office of ELINT has earmarked [REDACTED] from its FY-64 operating budget program to finance the prescribed antenna tests. Funds so earmarked, however, will not be committed at this time since OSA is normally responsible for financing work projects of this type. If OSA is unable to finance this portion of the program due to lack of money resources, OEL will absorb the cost burden prior to the close of the fiscal year.

5. In order that system design studies may be initiated at an early date, it is recommended that the following actions be taken:

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(a) OSA contract with [REDACTED] for the studies and analysis as outlined in the attachment.

(b) Pending resolution of financing responsibility set forth in paragraph four above, OSA contract with [REDACTED] for appropriate antenna tests.

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6. Based on the foregoing, it is recommended that this Office be authorized to transfer [REDACTED] to the Office of Special Activities for the execution of the desired contract with [REDACTED].

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/s/  
George C. Miller

GEORGE C. MILLER  
Assistant Director for ELINT

APPROVED:

5/  
ALBERT D. WHEELON  
Deputy Director  
(Science and Technology)

17 Feb 1964  
Date

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4 - OEL/RDD wo/att  
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Attachment: A/S

File: 6 & 7 - OEL/LSB wo/att  
7 & 8 - AD/OEL, OEL Ch, wo/att

Handle via [REDACTED]/RDD/SDB [REDACTED]/6941/OEL/LSB [REDACTED] 4491:dnm (13 Feb 64)

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ORIGINAL DOCUMENT MISSING PAGE(S):

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